Instructions for use

DVTCare™ CA5

ÖSSUR®

Life Without Limitations®

PLEASE FILL IN FOR FUTURE REFERENCE

Date purchased: _____

Serial Number: _____

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GENERAL WARNINGS

WARNING: Electric shock hazard. Do not remove cover.

WARNING: Do not attempt to service the pump control unit for any reason. Contact Provider for instructions (see front cover and/or Provider documentation for contact information).

WARNING: If pulsations or throbbing occur, the cuff is wrapped too tight. Loosen immediately.

WARNING: Stop using device if swelling occurs; consult physician.

WARNING: Device to be used only by the patient prescribed, and only for its intended use.

WARNING: Ensure the pump control unit is turned off and unplugged from the power mains (wall outlet) prior to and while cleaning or disinfecting.

WARNING: Equipment not suitable for use in the presence of a **FLAMMABLE ANESTHETIC MIXTURE WITH AIR OR WITH OXYGEN OR NITROUS OXIDE**.

WARNING: Leg cuffs may cause irritation when used in direct contact with the skin.

CAUTION: Do not immerse in any liquid for any reason.

CAUTION: Do not operate device in a wet environment.

CAUTION: Allow cuffs to warm to room temperature if exposed to temperatures below 5°C

CAUTION: Do not subject the unit to shocks, such as dropping the pump unit.

CAUTION: Contains no serviceable parts. Contact provider for service (page 2)

CAUTION: Do not place any items in an autoclave.

CAUTION: This unit needs to be installed according to information provided in EMC sec. 38.

CAUTION: Portable and mobile RF communications equipment can affect the operation of this device.

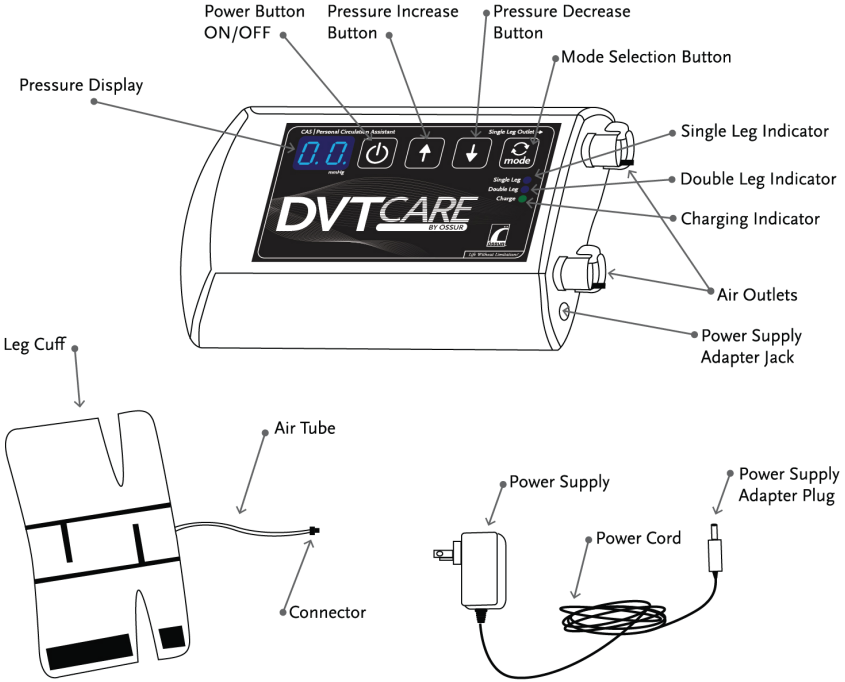
PURPOSE OF DEVICE

The purpose of the CA5 personal circulation assistant is to aid in the prevention of Deep Vein Thrombosis (DVT) by helping to stimulate blood flow in the legs. This is accomplished by the electronically controlled pump unit delivering a set amount of air to the leg cuffs that, in turn, compress the calf(s) to aid blood flow out of the lower extremities. This pump unit will inflate to a specified pressure, set by the user or health care provider, and deflate once that pressures is reached. Cycles are repeated until the unit is turned off. Cycle times can only be adjusted by a healthcare provider. Internal rechargeable batteries allow the system to be completely portable, thus preventing many interruptions in treatment.

INTENDED USES

The DVTcare™ CA5 is intended to be an easy to use, portable system that is prescribed by healthcare professionals, to help prevent the onset of DVT in patients, by stimulating blood flow in the legs (simulating muscle contractions). Furthermore, the unit can be used as an aid in the prophylaxis for DVT by persons traveling, or those expecting to be stationary for long periods of time (greater than 4 hours). This device can also be used by patients to: aid in the prevention of DVT, enhance blood circulation, diminish post-operative pain and swelling, reduce wound healing time, and aid in the treatment and healing of: stasis dermatitis, venous stasis ulcers, arterial and diabetic leg ulcers, chronic venous insufficiency, and reduction of edema in the lower limbs.

DESCRIPTION OF DEVICE



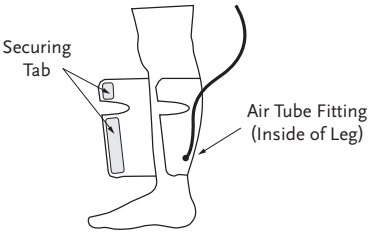
SET-UP INSTRUCTIONS

NOTE: The DVTCare CA5 requires EMC precautions, and needs to be installed and put into service according the EMC information provided on pages 12-14.

NOTE: Portable and mobile radio frequency communications can affect the DVTCare CA5

1) For future reference, enter the date of purchase and unit Serial Number (found on the rear label of each pump unit) in the spaces provided on page 2.
2) Remove items from packaging and plastic bags (if present).
3) Make sure all of the pieces listed on page 4 are readily available.
4) Inspect all components for damage. If any parts appear damaged or are inoperable, contact Provider Customer Service (page 1)
5) Uncoil the tubing attached to the cuff(s).
6) Apply Leg Garments to leg calf (see below). Route tubing under clothing or in a manner to prevent a tripping hazard and to avoid kinks.
7) Ensure metal thumb tabs on the pump units air outlets are depressed to allow the air tube connector to engage.
8) Insert pump in pouch and align the outlets with access holes in the pouch and connect air tube(s) to pump air outlets.
9) Secure carry case as desired using the strap or belt loop provided.

DONNING THE SINGLE / DOUBLE MODE GARMENTS



1) Ensure that the securing tab is on the inside of the garment relative to leg.
2) Place the garment so the tube and elbow fitting are on the inside of the calf, above the ankle.
3) Wrap the garment around your calf so that it is a snug fit.
4) Adjust as necessary.

WARNING:If pulsations or throbbing occur, the cuff is wrapped too tightly. Loosen immediately.
WARNING:If "HI" error occurs ensure that tubing is not kinked and elbow fitting is on interior of calf above the ankle

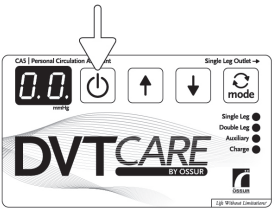
AC ADAPTER

Insert the supplied power supply plug into the adapter jack in the pump and connect the power supply adapter to a 100–240V~ wall socket. To maximize performance during extended operation, connect AC adapter while in use. Full charge is approximately 8.1 volts.

NOTE: Use power supply provided

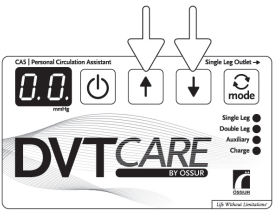
- Part # MPS-12-001 or DVT67119
- Input: 110-240V~, 50/60Hz, 0.5A
- Output: +12V - - - 1.25 A

NOTE: To isolate unit, unplug from AC adapter/power supply.

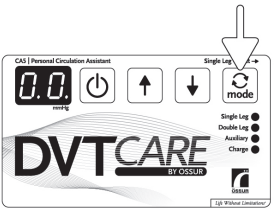


OPERATING INSTRUCTIONS

1) After following the set-up instructions on page 5, ensure leg cuffs are wrapped firmly around legs as indicated.
2) To turn the system on, press the power button for 2 seconds.
3) The system will self diagnose and display either battery voltage or "AC" (if plugged in), followed by the current pressure setting. If battery voltage is below 6.9, plug in power supply prior to use. Whenever possible, operate unit with power supply connected.
4) The Charge status shows "blinking" when unit is being charged and "on" when unit is fully charged. If the unit will not power on, connect the wall supply to charge battery. Unit may be used while plugged into wall outlet.
5) Set pressure by using the ↑ and ↓ buttons, to either increase or decrease the set pressure. Pressure adjustments can be made at any time during the cycle. Press an arrow key for 1mmHg increments and hold the arrow key to scroll in 5mmHg increments.



6) Press the “Mode” button to change between single and double leg modes.
7) While in “Double Leg” mode, only one leg cuff fills at a time. The leg bladders vent immediately after filling and continue to vent until the next cycle.
8) Healthcare providers please reference supplemental instructions for entering the “Health care provider access code” to adjust the upper pressure limit and access the reset function.
9) To maximize performance during extended operation, connect AC adapter while in use.
10) To remove cuff, pull securing straps and unwrap from leg.
11) To disconnect the air tube from pump unit, depress thumb tab on pump unit while pulling the tube away.



NOTE: If this system does not inflate or has other malfunctions, consult your Health Care Provider immediately for a replacement and for further directions.

EXPLANATION OF BUTTON FUNCTIONS

- **Power**
  Depress and hold for ½ sec to turn unit on. Depress and hold for 2 sec to turn unit off.
- **Up Arrow**
  Depress briefly to increase pressure by 1mmHg. Depress and hold to increase pressure in 5mmHg increments.
- **Down Arrow**
  Depress briefly to decrease pressure by 1mmHg. Depress and hold to decrease pressure by 5mmHg increments.
- **Mode**
  Depress briefly to change between single-leg and double-leg mode. Confirm garment connections to “single-leg” fitting when in single-leg mode.

EXPLANATION OF LED INDICATORS

The DVTCare CA5 has 2 operational modes: single leg and dual leg.

- **Single-leg mode**
  Indicates unit is operating in single-leg mode
- **Double-leg mode**
  Indicates unit is operating in double-leg mode.
- **Charge status**
  When power supply is connected to wall supply and unit, and charge light is blinking, unit is charging. If charge light is on and not blinking, charge is complete. Light is off when not connected to wall power supply.

USER MAINTENANCE

WARNING: **DO NOT** attempt to service the pump control unit for any reason.

- Inspect the unit and components for any damage that may have occurred during shipping or general handling prior to each use (ie: cut cord, split air tubes, cracked plastic housing, torn cuff, etc). Refer to Description of Device (pg 4) for description of all components.
- Do not attempt to connect the wall supply if any damage is noticed.
- Avoid subjecting the unit to shocks, such as dropping the pump unit.
- Notify provider for immediate replacement of any kinked or damaged tubes.
- Do not handle the leg cuffs with any sharp objects. If bladder is punctured, do not repair.
- Roll cuff for storage transportation; avoid folding or creasing the bladder.
- Battery is not replaceable – return unit to provider.
- This device is not protected by a protective earth ground.

ENVIRONMENTAL CONDITIONS

- **DO NOT** expose device to direct sunlight.
- **DO NOT** operate the pump if it has been stored in freezing conditions. Allow cuffs to warm to room temperature if exposed to temperatures below 5°C (41°F).
- **DO NOT** unroll or don the leg cuff in below freezing temperatures (0°C / 32°F) as damage to the air bladder can occur, making it unable to hold pressure.
- **DO NOT** expose device to a direct heat source with temperatures exceeding 50°C (122°F) for extended periods of time.
- Transport temperature and relative humidity: Temperature Range -20°C (-4°F) to +60°C (140°F); Relative Humidity 30% to 75%; Keep Dry
- Normal Operating Conditions: Temperature Range +10°C (50°F) to +40°C (104°F); Relative Humidity 30% to 75%. Keep dry.

TROUBLE SHOOTING

PROBLEM		SOLUTION
Air tube outlet connector will not fit in port		Ensure press tab on fittings is depressed.
Unit will not turn on		Battery charge is too low. Connect unit to a wall supply for a fresh charge and turn on.
Cannot feel pressure on leg(s)		• Fitting on garment is compressed and must be oriented toward inside of calf above the ankle • Garment is not wrapped/secured tightly to site • Air tubes are not connected or kinked • Bladder is damaged and leaks • Ensure correct "mode" is selected
Pressure is too high on leg		• Verify settings are as prescribed by physician • Decrease pressure setting, contact physician
Intermittent Blink/Beep	Control unit detected high pressure	Remove kinks and/or restrictions from tubing. Orient Cuff fitting inside of calf above the ankle. If bladder is full, unplug from unit momentarily to allow deflation, and reconnect. Allow unit to continue to cycle.
Steady Blink/Beep	Control unit detected high pressure for 10+ Cycles and has ceased cycling	Remove kinks and/or restrictions from tubing. Orient Cuff fitting inside of calf above the ankle. If bladder is full, unplug from unit momentarily to allow deflation, and reconnect. Power unit down and restart.
Intermittent Blink/Beep	Control unit detected low pressure	Inspect fittings at pump, tubing and garment for loose fittings or leaks. Allow unit to continue to cycle.
Steady Blink/Beep	Control unit detected low pressure for 10+ cycles and has ceased cycling	Inspect fittings at pump, tubing and garment for loose fittings or leaks. Power unit down and restart.
	Battery is low.	Connect to wall supply.
	Pump needs to be reset.	Power off and restart – if condition persists, contact Provider

If problems persist, contact your equipment provider as per page 1.

CONTRAINDICATIONS

The DVTCare CA5 should not be used to treat the following conditions.

- Persons with suspected, active or untreated: deep vein thrombosis, ischemic vascular disease, severe arteriosclerosis, pulmonary edema, congestive heart failure, thrombophlebitis or an active infection.
- It is not recommended for use on a leg where cuffs would interfere with the following conditions: vein ligation, gangrene, dermatitis, open wounds, a recent skin graft, massive edema or extreme deformity of the leg.
- Not for use with patients with neuropathy.
- **DO NOT** use on extremities that are insensitive to pain.
- **DO NOT** use where increased venous or lymphatic return is undesirable.
- Leg cuffs not to be used in direct contact with skin.

STORAGE

- Store in a dry location between +10°C (50°F) and +40°C (104°F), 30%–75% relative humidity.
- **DO NOT** expose to heat exceeding 65°C (149°F).
- **DO NOT** store items in direct sunlight.

- Ensure zipper/covers of the carry pouch/storage bags are firmly closed to prevent dust and damage.
- Roll cuff and do not fold, as folding will decrease the life of your product.
- Connect unit to charger for recharge no less than 6 hours every 60 days to preserve integrity of internal batteries.

CLEANING AND DISINFECTING

NOTE: Inspect the DVTCare unit and follow the cleaning and disinfecting procedures prior to each use.

WARNING: Device must be turned off and disconnected from the wall outlet prior to and while cleaning or disinfecting.

CAUTION: Contains no serviceable parts. Contact equipment provider for service.

CAUTION: **DO NOT** place any items in an autoclave.

CAUTION: **DO NOT** immerse pump unit in any liquid for any reason.

- Clean the outer surface of the pump unit using a soft cloth moistened with 70% isopropyl alcohol or soapy water.
- **DO NOT** use bleach on any item.
- **DO NOT** use abrasive or volatile cleaners – display could become scratched and hard to read.
- **DO NOT** place cuff or carry pouch in dryer, as the bladder could melt.
- Hand wash exterior of cuff and carry pouch using a soft cloth moistened with soapy water or 70% isopropyl alcohol and let air dry.
- To ensure product is completely dry prior to use, leave unit in the off condition and disconnected from power (wall outlet) for 30 minutes after cleaning or disinfecting.

NOTE: Inspect unit and follow the cleaning and disinfecting procedures prior to each use.

TECHNICAL DATA – DVTCARE MODEL CA5

Electro Magnetic Compatibility Data on pages 12–14 below.

Refer to user manual for further instructions.

This symbol designates the degree of protection against electrical shock as being a type BF applied part.

This unit is an electromechanical device that includes printed circuit boards and rechargeable batteries. Do not discard in landfill. Consult local, state, federal and country requirements for proper disposal instructions.

The use of accessories, transducers and cables other than those specified, may result in increased emissions or decreased immunity of the DVTCare CA5.

Designates Class II medical electrical equipment.

The cuffs are single-use devices. One patient may use a cuff multiple times, but a single cuff may not be shared between patients.

Alternating Current

Direct Current

Fragile

This end up

Temperature Limits

Keep away from rain

GENERAL TECHNICAL DATA

NOTE: The DVTCare CA5 requires EMC precautions, and needs to be installed and put into service according the EMC information provided on pages12–14

- ***Size:*** 5.9×3.9×1.6 inches (15×10×4 centimeters)
- ***Weight:*** 15 ounces (0.50 kg)

THIS DEVICE IS NOT PROTECTED AGAINST INGRESS OF WATER (ordinary protection IPX-0)**.**

- ***Power:*** This device is internally powered and operates under continuous loading. This device is not protected by a protective earth ground.
  Equipment not suitable for use in the presence of a **FLAMMABLE ANESTHETIC MIXTURE WITH AIR OR WITH OXYGEN OR NITROUS OXIDE.**
- ***Power Supply:*** MPS-12-001 or DVT67119
- ***Input:*** 110-240V~, 50/60Hz, 0.5A
- ***Output:*** +12VDC, 1.25 A

NOTE: This power supply is not approved for hospital, oxygen rich use.

- ***Battery Run Time*:***
  Single-leg mode: **16 hours***
  Double-leg mode: **8 hours***
  Recharge time: **3–4 hours**
  Approximate number of charges: **500 Cycles**
  ** Based on default settings*

NOTE: Recharge batteries using only the power supply supplied with this system. Batteries are best cycled a minimum of once every 60 days to sustain 500 cycle life.

NOTE: This unit is provided with rechargeable batteries that are not customer replaceable. Return to provider for service (see back cover).

DEFAULT SETTINGS

	SINGLE-LEG MODE	DOUBLE-LEG MODE
Pressure	50 mmHg	50 mmHg
Hold Time	2 secs	2 secs
Cycle Time	60 secs	60 secs

ADJUSTMENT RANGE

	SINGLE-LEG MODE	DOUBLE-LEG MODE
Pressure adjustment	20–50 mmHg	20–50 mmHg
Cycle Time	60–75 secs	60–75 secs

The Healthcare Provider can adjust pressure range from 20–65 mmHg if so prescribed.

TOLERANCES

Pressure	± 4 mmHg
Cycle Time	± 1 second
Displayed battery charge	± 0.1 V

DISPOSAL

This unit is an electromechanical device that includes printed circuit boards and rechargeable batteries. **DO NOT** discard in landfill. Consult local, state, federal and country requirements for proper disposal instructions.

Cuffs may be discarded in US landfill

DVTCARE CA5 ELECTROMAGNETIC COMPATIBILITY

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS (IEC60601-1-2 TABLE 201)

The DVTCare CA5 is intended for use in the electromagnetic environment specified below. The customer or the user of the DVTCare CA5 should assure that it is used in such an environment.

EMISSIONS TEST	COMPLIANCE	EMC ENVIRONMENT GUIDANCE
RF emissions CISPR 11	Group 1	The DVTCare CA5 uses RF energy for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The DVTCare CA5 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS (IEC60601-1-2 TABLE 202)

The DVTCare CA5 is intended for use in the electromagnetic environment specified below. The customer or the user of the DVTCare CA5 should assure that it is used in such an environment.

IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	EMC ENVIRONMENT GUIDANCE
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tilt. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-5	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC61000-4-5	±1 kV line(s) to line(s) CHECK ±2 kV line(s) To earth	±1 kV line(s) to line(s) CHECK ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0,5 cycle. 40% U_T (60% dip in U_T) for 5 cycles. 70% U_T (30% dip in U_T) for 25 cycles. <5% U_T (>95% dip in U_T) for 5 sec	<5% U_T (>95% dip in U_T) for 0.5 cycle. 40% U_T (60% dip in U_T) for 5 cycles. 70% U_T (30% dip in U_T) for 25 cycles. <5% U_T (>95% dip in U_T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the DVTCare CA5 requires continued operation during power mains interruptions, it is recommended that the DVTCare be powered from an uninterruptible power supply or battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T is the a.c. mains voltage prior to application of the test level.

GUIDANCE AND MANUFACTURER'S DECLARATION – ELECTROMAGNETIC EMISSIONS FOR NON-LIFE SUPPORT EQUIPMENT (IEC60601-1-2 TABLE 204)

The DVTCare CA5 is intended for use in the electromagnetic environment specified below. The customer or the user of the DVTCare CA5 should assure that it is used in such an environment.

IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	EMC ENVIRONMENT GUIDANCE
			Portable and mobile RF communications equipment should be used no closer to any part of the DVTCare CA5, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 KHz to 80 KHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 10 V/m	d = 1.2 √P d = .35 √P 80MHz to 800 MHz d = .70 √P 800MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watts *(W)* according to the transmitter manufacturer and d is the recommended separation distance in meters *(m)*. Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey* should be less than the compliance level in each frequency range**. Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

* Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, Am and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measure field strength in the location in which the DVTCare CA5 is used exceeds the applicable RF compliance level above the DVTCare CA5 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocation the DVTCare CA5.

** Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

			Portable and mobile RF communications equipment should be used no closer to any part of the DVTCare CA5, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.

RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND THE DVTCARE CA5 (IEC60601-1-2 TABLE 206)

The DVTCare CA5 is intended for use in the electromagnetic environment in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the DVTCare CA5 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the DVTCare CA5 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter *(W)*	**Separation distance according to frequency of transmitter** *(m)*		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	**80 MHz to 800 MHz** $d = .35\sqrt{P}$	**800 MHz to 2.5 GHz** $d = .70\sqrt{P}$
0.01	0.12	0.04	0.07
0.10	0.38	0.11	0.22
1.00	1.20	0.35	0.70
10.00	3.80	1.10	2.20
100.00	12.00	3.50	7.00

For transmitters rated at a maximum output power not listed above, the recommended separation distance of *"d"* in meters *(m)* can be estimated using the equation applicable to the frequency of the transmitter, where *"P"* is the maximum output power rating of the transmitter in watts *(W)* according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

NOTE: The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of the DVTCare CA5 as replacement parts for internal components, may result in increased emissions or decreased immunity of the DVTCare CA5.

NOTE: The DVTCare CA5 should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the DVTCare CA5 should be observed to verify normal operation in the configuration in which it will be used

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